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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/748,766

12/30/2003

Kang-Gyu Lee

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EXAMINER

PHU, PHUONG M

ART UNIT

PAPER NUMBER

2611

MAIL DATE

DELIVERY MODE

08/14/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/748,766

Applicant(s)

LEE, KANG-GYU

Examiner

Phuong Phu

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 June 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 3-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☒ Claim(s) 1 and 3-7 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application
- ☐ Other: _____

DETAILED ACTION

1. This Office Action is responsive to the Amendment filed on 6/7/07. Accordingly, claims 1 and 3-7 are currently pending; and claim 2 is canceled.

Claim Objections

2. Claims 1 and 3-7 are objected to because of the following informalities:

-Claim 1, lines 11-14, recites the limitation "storing the received PDU if the TSN of the received PDU is within a predetermined range even though the TSN of the received PDU is smaller than the TSN of the PDU at the upper edge of the received window *in the reordering buffer*". The phrase "the reordering buffer" is lack of antecedent basis. In addition, it is unclear whether the claim means that the "storing the received PDU" stores "the received PDU" in "the reordering buffer" or that "the received window" is in "the reordering buffer". Based on the disclosure, figure 6A, and page 14, line 15 to page 15, line 14, of the instant application, it is suggested the limitation to be changed to --storing the received PDU *in a reordering buffer* if the TSN of the received PDU is within a predetermined range even though the TSN of the received PDU is smaller than the TSN of the PDU at the upper edge of the received window --.

-Similarly, in claim 5, lines 9-12, the limitation "storing the received PDU if the TSN of the received PDU is within a predetermined range even though the TSN of the received PDU is smaller than the TSN of the PDU at the upper edge of the received window *in a reordering buffer*" is suggested to be changed to --storing the received PDU *in a reordering buffer* if the TSN of the received PDU is within a predetermined range even though the TSN of the received PDU is smaller than the TSN of the PDU at the upper edge of the received window --.

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-Claim 5 omits functional/connectional interrelationship of element "buffer", (see line 13), and element "HARQ (Hybrid Automatic Retransmission request) entity", (see line 5). The omission renders the claim unclear on how the operation(s) or result(s) of one of the elements "buffer" and "HARQ (Hybrid Automatic Retransmission request) entity" affect operation(s) or results(s) of the other for making the claimed "receiver" as a complete operative device. Based on the disclosure, figure 6A, and page 14, line 15 to page 15, line 14, of the instant application, it is suggested the limitation "a buffer", on line 13, to be changed to --the reordering buffer--.

-Claims, depended on the above claims, are therefore also objected.

Appropriate correction is required.

Allowable Subject Matter

3. Claims 1 and 3-7 would be allowable if rewritten or amended to overcome the objection(s), set forth in this Office action.

Response to Arguments

4. Applicant's arguments filed on 6/7/07 have been fully considered. As results, the previous rejections have been withdrawn. Claims 1 and 3-7 are indicated allowable as set forth above in this Office Action.

Conclusion

5. This application is in condition for allowance except for the above formal matters.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phuong Phu

Phuong Phu
8/9/07

**PHUONG PHU
PRIMARY EXAMINER**

Phuong Phu
Primary Examiner
Art Unit 2611